GILA RIVER BASIN

09485550 ARCADIA WASH AT TUCSON, AZ

LOCATION.--Lat $32^{\circ}14'37''$, long $110^{\circ}53'05''$, in $SE^{1}/_{4}NW^{1}/_{4}$ sec.2, T.14 S., R.14 E., Pima County, Hydrologic Unit 15050302, on right bank 150 ft downstream from Pima Street in Tucson.

DRAINAGE AREA.--2.72 mi².

PERIOD OF RECORD.--October 1975 to September 1983 (Publication by U.S. Geological Survey discontinued; records available from cooperator listed below).

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 2,485 ft, from topographic map.

REMARKS.--Entire drainage basin is an urban, residential area.

COOPERATION .-- Records furnished by Water Resources Research Center, University of Arizona.

AVERAGE DISCHARGE.--8 years, 0.36 ft³/s, 261 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft³/s, Sept. 11, 1982, gage height, 5.36 ft; no flow most of each year.

Annual peak discharge

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1966	07-19-66	658	НР,С	1976	09-25-76	342	С
1968	08-19-68	310	C	1977	09-10-77	220	C
1969	08-05-69	265	C	1978	09-21-78	661	C
1970	08-11-70	594	C	1979	08-12-79	647	C
1971	08-17-71	¹ 1,210	C	1980	08-13-80	595	C
1972	08-12-72	940	C	1981	06-25-81	330	C
1973	07-07-73	121	C	1982	09-11-82	836	C
1974	07-18-74	264	C	1983	11-30-83	157	C
1975	07-16-75	134	C				

¹Highest since 1963.

Magnitude and probability of instantaneous peak flow based on period of record 1966, 1968-83

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probablility, in percent							
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%		
395	707	953	1,310	1,600	1,920		
Weighted skew	(logs) =	-0.07					
Mean	(logs) =	2.59					
Standard dev.	(logs) =	0.30					

[†] Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
Main channel slope (ft/mi)						2-year (in)	50-year (in)
0.77	5.54	2,560	0.0	1.0	11.0	1.7	4.2

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09485550 ARCADIA WASH AT TUCSON, AZ--Continued

